

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6427068").PN.	US-PGPUB; USPAT	OR	OFF	2006/05/10 18:36
L2	1091	(455/150.1,182.1-182.3,183.1, 339).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 18:36
S1	2606	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/10 15:29
S2	5053	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/10 15:32
S3	3	((5937341") or ("6427068") or ("6631256")).PN.	US-PGPUB; USPAT	OR	OFF	2005/02/10 15:37
S4	1	("20040038655").PN.	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:38
S5	58	("3961262"   "3992616"   "4241451"   "4584715"   "4675882"   "4737728"   "4803700"   "4859960"   "4864643"   "4884265"   "4914408"   "4944025"   "4953182"   "4965853"   "4992736"   "4994769"   "5003621"   "5010399"   "5121070"   "5125008"   "5142553"   "5214796"   "5230099"   "5249203"   "5315425"   "5341107"   "5355513"   "5375146"   "5376894"   "5402449"   "5438329"   "5461643"   "5528633"   "5548244"   "5588025"   "5619206"   "5640698"   "5682099"   "5696796"   "5715529"   "5734976"   "5742274"   "5758274"   "5761615"   "5784414"   "5784418"   "5802463"   "5809090"   "5811972"   "5815529"   "5826180"   "5828955"   "5875212"   "5887247"   "5950119"   "5974306"   "6073000"   "6427068").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/16 16:04

## EAST Search History

S6	37	("3961262"   "3992616"   "4241451"   "4584715"   "4675882"   "4737728"   "4803700"   "4859960"   "4864643"   "4884265"   "4914408"   "4944025"   "4953182"   "4965853"   "4994769"   "5003621"   "5125008"   "5142553"   "5230099"   "5249203"   "5341107"   "5375146"   "5402449"   "5548244"   "5640698"   "5696796"   "5715529"   "5742189"   "5758274"   "5761615"   "5784414"   "5802463"   "5826180"   "5828955"   "5950119"   "5974306"   "6073000").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/16 16:05
S7	23	("4241451"   "4675882"   "4737728"   "4803700"   "4864643"   "4884265"   "4944025"   "4965853"   "4994769"   "5003621"   "5125008"   "5142553"   "5230099"   "5249203"   "5375146"   "5402449"   "5548244"   "5640698"   "5761615"   "5784414"   "5802463"   "5826180"   "5828955").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/16 16:05
S8	20	oscillat\$3 near10 filter\$3 near10 channel\$7 near10 (passband or "pass-band")	US-PGPUB; USPAT	OR	ON	2005/02/16 17:07
S9	2606	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/16 16:07
S10	5054	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/16 16:07
S11	0	S5 and S8	US-PGPUB; USPAT	OR	ON	2005/02/16 17:07
S12	0	S6 and S8	US-PGPUB; USPAT	OR	ON	2005/02/16 17:07
S13	0	S7 and S8	US-PGPUB; USPAT	OR	ON	2005/02/16 17:07
S14	2758	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:33

## EAST Search History

S15	1	("6631256").PN.	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:39
S16	1	("6427068").PN.	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:39
S17	5301	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:47
S18	6880	S14 or S17	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:47
S19	1593	S18 and quadrature	US-PGPUB; USPAT	OR	OFF	2005/11/21 11:47
S20	118	S18 and (quadrature near7 inphase)	US-PGPUB; USPAT	OR	ON	2005/11/21 11:47
S21	2854	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/04/02 17:09
S22	5469	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/04/02 17:09
S23	3	("6631256") or ("6427068") or ("5937341").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/02 17:50
S24	0	channel near3 spac\$3 near8 quadrature near9 (tuning or tun\$3 or tunable) near8 oscillat\$3 near9 mixer	US-PGPUB; USPAT	OR	ON	2006/04/02 18:05

## EAST Search History

S25	58	( "3961262"   "3992616"   "4241451"   "4584715"   "4675882"   "4737728"   "4803700"   "4859960"   "4864643"   "4884265"   "4914408"   "4944025"   "4953182"   "4965853"   "4992736"   "4994769"   "5003621"   "5010399"   "5121070"   "5125008"   "5142553"   "5214796"   "5230099"   "5249203"   "5315425"   "5341107"   "5355513"   "5375146"   "5376894"   "5402449"   "5438329"   "5461643"   "5528633"   "5548244"   "5588025"   "5619206"   "5640698"   "5682099"   "5696796"   "5715529"   "5734976"   "5742274"   "5758274"   "5761615"   "5784414"   "5784418"   "5802463"   "5809090"   "5811972"   "5815529"   "5826180"   "5828955"   "5875212"   "5887247"   "5950119"   "5974306"   "6073000"   "6427068").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/02 17:57
S26	0	channel near3 spac\$3 near8 "q" near9 (tuning or tun\$3 or tunable) near8 oscillat\$3 near9 mixer	US-PGPUB; USPAT	OR	ON	2006/04/02 18:05
S27	5	channel near3 spac\$3 near8 "q" near12 oscillat\$3 near9 mixer	US-PGPUB; USPAT	OR	ON	2006/05/10 11:39
S28	2854	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/04/03 07:55

## EAST Search History

S29	58	( "3961262"   "3992616"   "4241451"   "4584715"   "4675882"   "4737728"   "4803700"   "4859960"   "4864643"   "4884265"   "4914408"   "4944025"   "4953182"   "4965853"   "4992736"   "4994769"   "5003621"   "5010399"   "5121070"   "5125008"   "5142553"   "5214796"   "5230099"   "5249203"   "5315425"   "5341107"   "5355513"   "5375146"   "5376894"   "5402449"   "5438329"   "5461643"   "5528633"   "5548244"   "5588025"   "5619206"   "5640698"   "5682099"   "5696796"   "5715529"   "5734976"   "5742274"   "5758274"   "5761615"   "5784414"   "5784418"   "5802463"   "5809090"   "5811972"   "5815529"   "5826180"   "5828955"   "5875212"   "5887247"   "5950119"   "5974306"   "6073000"   "6427068").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/03 07:56
S30	5	inphase near7 quadrature near8 tuning	US-PGPUB; USPAT	OR	OFF	2006/04/03 07:57
S31	2886	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:15
S32	5525	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S33	2886	((455/142,143,207,302,303,305, 306,316,324,338) or (375/322, 324)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 18:30
S34	5525	((455/214,316,324,336,337,213, 286,302,307,299,306,339,318, 313,314,317,323,266,75) or (333/18)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S35	7178	S33 or S34	US-PGPUB; USPAT	OR	OFF	2006/05/10 11:16
S36	130	S35 and (quadrature near7 inphase)	US-PGPUB; USPAT	OR	ON	2006/05/10 11:16

## EAST Search History

S37	0	channel near3 spac\$3 near8 "q" near9 (tuning or tun\$3 or tunable) near8 oscillat\$3 near9 mixer	US-PGPUB; USPAT	OR	ON	2006/05/10 11:16
S38	130	S35 and (quadrature near7 inphase)	US-PGPUB; USPAT	OR	ON	2006/05/10 11:17
S39	0	inphase near7 quadrature near8 channel near4 spac\$3	US-PGPUB; USPAT	OR	ON	2006/05/10 11:22
S41	0	inphase near7 quadrature near15 channel\$2 near4 spac\$3	US-PGPUB; USPAT	OR	ON	2006/05/10 11:22
S42	26	inphase near7 quadrature near15 channel near4 separa\$4	US-PGPUB; USPAT	OR	ON	2006/05/10 11:38
S43	6	(inphase near7 quadrature near15 channel near4 separa\$4).clm.	US-PGPUB; USPAT	OR	ON	2006/05/10 11:39
S44	15	channel near3 spac\$3 near12 "q" near12 filter\$3	US-PGPUB; USPAT	OR	ON	2006/05/10 16:46
S45	1	(channel near3 spac\$3 near12 "q" near12 filter\$3).clm.	US-PGPUB; USPAT	OR	ON	2006/05/10 16:46